

518,692

Doc'n PCT/PTO 16 DEC 2004

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
8 January 2004 (08.01.2004)

PCT

(10) International Publication Number
WO 2004/003072 A1

- (51) International Patent Classification⁷: **C08L 23/10**, B29C 45/00 // (C08L 23/10, 23:08)
- (21) International Application Number: PCT/EP2003/006093
- (22) International Filing Date: 11 June 2003 (11.06.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
02014213.9 26 June 2002 (26.06.2002) EP
- (71) Applicant (for all designated States except US): **BASELL POLIOLEFINE ITALIA S.P.A.** [IT/IT]; Via Pergolesi, 25, I-20124 Milano (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **PELLICONI, Anteo** [IT/IT]; Via Volta, 22, I-45030 Santa Maria Madalena, Rovigo (IT). **ANGELINI, Antonella** [IT/IT]; Via Val Trebba, 16, I-44100 Ferrara (IT). **SGARZI, Paola** [IT/IT]; Via Borgo dei Leoni, 83, I-44100 Ferrara (IT).
- (74) Agent: **GAVERINI, Gaetano**; Basell Poliolefine Italia S.p.A., Intellectual Property, Via Pergolesi, 25, I-20124 Milano (IT).
- (81) Designated States (*national*): AU, BR, CA, CN, CO, CZ, HU, ID, IL, IN, JP, KR, MX, NO, PH, PL, RO, RU, SG, SK, UA, US, YU, ZA.
- (84) Designated States (*regional*): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).
- Declarations under Rule 4.17:**
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
 - of inventorship (Rule 4.17(iv)) for US only
- Published:**
- with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IMPACT-RESISTANT POLYOLEFIN COMPOSITIONS

(57) Abstract: Polyolefin compositions comprising (percent by weight): 1) 55-90% of a crystalline propylene homopolymer or copolymer containing up to 15% of ethylene and/or C₄-C₁₀ α-olefin(s) and having values of MFR equal to or higher than 25 g/10 min; 2) 10-45% of a copolymer of ethylene with one or more C₄-C₁₀ α-olefin(s) containing from 10 to 40% of said C₄-C₁₀ α-olefin(s); said compositions having values of MFR equal to or higher than 20 g/10 min, a total content of ethylene of 20% or more, a total content of C₄-C₁₀ α-olefin(s) of 4.5% or more, a ratio of the total content of ethylene to the total content of C₄-C₁₀ α-olefin(s) of 2.3 or more, a total fraction soluble in xylene at room temperature of less than 18 wt% and an intrinsic viscosity value of the fraction soluble in xylene at room temperature of 1.7 dl/g or less.

WO 2004/003072 A1